PART Ed 1407 SECONDARY ENGINEERING TECHNOLOGY PROGRAMS

Ed 1407.01 Program and Curriculum.

(a) The department shall develop and implement an engineering technology program in secondary schools and in the regional centers to provide statewide opportunities for high school students interested in careers in engineering, or allied engineering fields, to enroll in a high quality engineering technology program.

(b) Each receiving board that oversees a secondary school and a regional center under RSA 188-E and under Ed 1403.01, that offers a secondary engineering technology program, shall ensure that the program meets the course content and curricular requirements of RSA 188-E:14.

Source. #9453, eff 4-11-09

Ed 1407.02 Funding for Developing and Implementing a Program and Curriculum.

(a) In order to secure funding to develop and implement a secondary engineering technology curriculum, the secondary school and the regional center shall:

(1) Establish a program advisory committee that includes the regional center director, a secondary school representative, instructors of related curriculum, 2 business representatives, 2 community representatives, and one post secondary representative who shall advise the regional center educators on programs at the center;

(2) Submit to the department a new program approval application that includes course content, competency and curricular requirements, equipment requirements, and space requirements;

(3) Demonstrate the required 50/50 match of public and private funds under RSA 188-E:14,III that:

a. Shows how receiving district expenditures complement the development of the engineering technology program;

b. Provides a list of expenditures by the receiving district and include a rationale for using these as match funds; and

c. Includes equipment items purchased for use not earlier than one year prior to the project start date for the engineering technology program.

(4) Provides professional development for instructors to gain certification to teach in the engineering technology program; and

(5) Provides professional development for instructors to teach in the engineering technology program as part of program improvement.

(b) In order to secure funding to develop and implement a secondary engineering technology curriculum for the program, the department shall:

(1) Provide technical assistance in the planning and development of the secondary engineering technology program;

(2) Receive and review the department New Program Approval Application that the secondary school and the regional center submit under Ed 1407.02(a)(2) to determine that the secondary school and the regional center meet the criteria for approval;

(3) Submit the proposed course content and curriculum to the engineering technology advisory council for review as provided in RSA 188-E:17;

(4) Release state funds up to $50,000, or the approved match funds, whichever is less, as provided in RSA 188-E:14, III and IV; and

(5) Make the program eligible to apply for federal funds once engineering technology program approval is granted.

Source. #9453, eff 4-11-09

Ed 1407.03 Secondary Engineering Technology Program. Each receiving district school board that oversees a regional center under RSA 188-E and under Ed 1403.01, that offers an engineering technology program, shall be required to provide:

(a) A program or sequence of courses, which combined with mathematics and science courses, introduces students to the scope, rigor and discipline of engineering.

(b) Instruction and activities that enable students to develop competencies in the following areas:

(1) Engineering design process(es);

(2) Principles of engineering process(es); and

(3) Problem-solving methodology as applied to engineering process(es).

(c) Systematic instruction and laboratory activities designed to enable students to:

(1) Develop the work habits and performance skills necessary for employability;

(2) Explore the fundamental concepts of entrepreneurship;

(3) Understand the concepts of engineering as a career;

(4) Achieve personal growth, develop leadership skills, and foster career opportunities; and

(5) Understand all aspects of the engineering industry including:

a. Management structure;

b. Planning for success;

c. Training requirements;

d. Health, safety, and environmental issues;

e. Technology;

f. Community Issues;

g. Labor issues; and

h. Financial management.

Source. #9453, eff 4-11-09